Nomad is a sophisticated digital evidence presentation system, featuring the following:

- **DOCUMENT CAMERA:** Power zoom, auto focus, high resolution allowing display of two- or three-dimensional objects, documents, transparencies, maps, etc.

- **INPUT/OUTPUT PORTS:** Rear access panel ports allow network or internet access for the computer, line level audio out for additional amplification and speakers, co-ax in for TV or satellite signal to the VCR, microphone input, videoconference connections, additional monitor connections, etc.

- **KEYBOARD/MOUSE:** Remote wireless keyboard / mouse, controlled by radio frequency up to 50 feet from receiver.

- **MONITOR:** 15-inch flat panel with adjustable arm allows presenters to maximize eye contact and body posture with audiences, without blocking projection view.

- **PERSONAL COMPUTER:** Pentium 4 1.5 GHz, Microsoft Windows XP, Intel 10/100+ Network card, 256 MB SDRAM -133 MHz, 40.0 GB Hard Drive, video card, floppy, CD, etc.

    - **LAPTOP / NOTEBOOK:** Pre-wired cables allow notebook computer interaction.

- **PROJECTOR:** Projects images from desktop computer, DVD, VCR, Internet, laptop, or document camera onto a large screen area

- **SOUND SYSTEM:** Multimedia sound system with adjustable speaker cubes provides up to 100 watts per channel and accommodates a room of up to 250 people.

- **VCR & DVD COMBO PLAYER.**

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Inexperienced users should allow 30 – 40 minutes to set up the Nomad.

Experienced users should allow 15 – 20 minutes to set up the Nomad.

The Nomad projector uses a very expensive light bulb. It is imperative that you do not shut off power to the projector prematurely, as this will damage the equipment. Wait for the yellow Power light to cease flashing, and wait for the fan to turn off.

Please see Shutdown Instructions for more information.

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Nomad Technologies, Inc.

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DIAGRAM

1. **Crestron Touchpad**
2. **Wheels**
3. **LCD Projector**
4. **Computer**
5. **Flat Panel Display**
6. **Wireless Keyboard and Mouse**

7. **Document Camera**
8. **VCR/DVD Player**
9. **BOSE Speakers**
10. **Input/Output Ports**

Additional Tips:

Many of the devices have their own remote controls. Individual remotes may be used, or the Crestron Touchpad may be used to control many devices simultaneously.

If you are unable to locate remote controls or other equipment, ask the Court Attendant for assistance. (Court Attendants are not responsible for operation of the Nomads, but may be able to provide you with extra batteries, a network outlet, etc.)
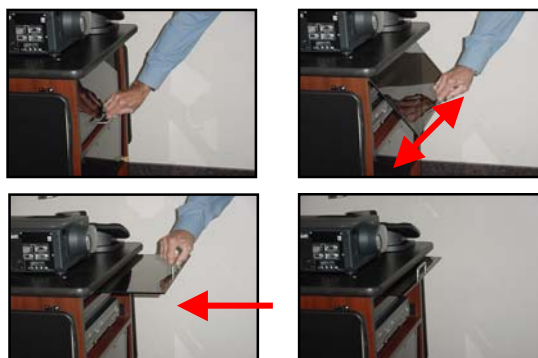
CART SET-UP PROCEDURES

1. Remove the waterproof nylon cover, if any.
2. Position the cart with the projector lens facing the projection screen.
3. Lock the wheels on both sides by pressing the levers with your foot.
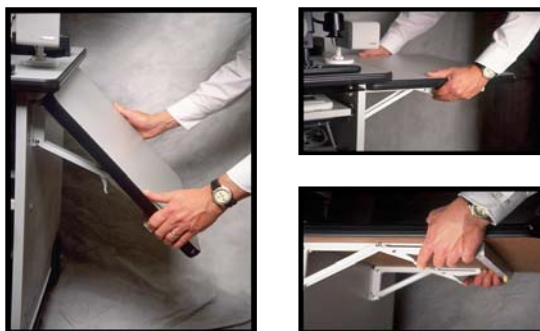

4. To access the power cord, open the rear panel and press door into the open/locked position. Extend the power cord as necessary to plug in to an electrical outlet.

5. Open the plexi-glass doors on the front of the cart by gently raising them to a horizontal position. Push inward gently until the doors stop.

6. If space allows, lift the flip-up work surfaces (black and white sideboards) until they snap into position. (You will need the whiteboard for the Document Camera.)

EQUIPMENT SET-UP PROCEDURES

PROJECTOR: PLEASE TURN ON THE PROJECTOR PRIOR TO TURNING ON OTHER EQUIPMENT.

1. Remove the protective lens cap from the projector. Be sure that the 'rocker' power switch on the right side of the projector is in the ON position.
2. Depress the green STANDBY/ON power button to turn on power, and wait approximately one minute for the image to sharpen and brighten on the viewing screen.

3. For vertical adjustments of the projected image, rotate the front feet of the projector. You may also adjust via the zoom in/zoom out buttons on top of the projector.

    A screen similar to the following will appear: (Picture not available.)

NO INPUT DETECTED		
Video Sources		
Source	**Used**	**Troubleshooting Tips**
(devices listed)		
Computer Sources		
Source	**Used**	**Troubleshooting Tips**
(devices listed)		

When the laptop or computer is booted up and ready to use, the above screen will change.

Note that the projector has a time-out, similar to a screen saver.   You can return to your image by pressing any key on your laptop or on the built-in computer.

The Input button on the Projector searches for attached/activated devices. Continue to click the Input button to toggle until the desired device is located.

LAPTOP:

4. Open the compartment or hatch at the right rear corner of the projector to access the blue 'S-Video In' cable used to connect a laptop. (Depending on the strength/quality of your laptop, you may be able to see the projected images on your laptop screen.)

5. Once your laptop has booted up, use your My Computer features to adjust volume control and to be certain that the sound is not muted.

VCR / DVD:

6. Turn on the power via the remote or via the power button. Note that the VCR is subordinated to the DVD. That is, if you are using both the VCR and DVD, the Nomad will default to the DVD and you will need to manually switch (via the remote) to the VCR.

BUILT-IN COMPUTER:

7. Turn on the built-in computer via the blue button marked Power on the front of the unit.

FLAT-PANEL MONITOR: (Be sure to lower the retractable handle by pressing the inside buttons at the base of each handle prior to lifting the flat panel monitor.)

HOLD THE HANDLE WHILE RETRACTING TO AVOID INJURIES

The flat panel monitor can be moved and placed in many positions for optimum viewing by the presenter, and to minimize obstruction of exhibits for the audience. The flexible arm consists of many pivots and joints.

8. To raise the flat panel monitor, hold the screen in both hands and pull toward you. Gently lift the screen to the desired position. Note that the arrows indicate the straight knuckle position you will need for equipment shutdown.

    Turn on power to the monitor via the power button at the lower edge of the screen.

DOCUMENT CAMERA:

9. Be sure the document camera is ON. The red light indicates there is power to the unit. When the red light goes off, the camera is active and ready to use.

LIGHT ON = POWER
LIGHT OFF = READY

10. Gently remove the lens cap and position the camera over the whiteboard. You may rotate the head of the camera or the arm for correct orientation. Note that the camera cannot be turned completely around; knuckles stop the camera from turning past certain points. Do not force the knuckles.

Use the Document Camera's control panel to zoom in or out and to focus.

(The camera function is easily tested. Place your hand under the lens and watch the projection screen.)

Image capture is available through the built-in computer. Double-click the DOC CAM icon on the windows desktop.

KEYBOARD AND MOUSE TRAYS:

11. Pull out the keyboard and mouse trays. The mouse tray will move to either side for left-handed or right-handed users.

    The wireless keyboard may be used hand-held up to 50 feet away from the Nomad, on the tray, or at a desk or podium. Direct line of sight to the Nomad is not necessary. *Note, however, that you may experience difficulty if the keyboard is too close to the Nomad.*

    If you experience response problems with the keyboard or touchpad, you may need to change the batteries. The battery access panel is on the bottom of the keyboard, and requires 4AA Alkaline batteries. If you still experience response problems after changing batteries, you may need to change frequencies, described below.

The Nomad features a number of mouse devices:

- Standard 2-button mouse, located at the rear of the keyboard tray.

- Touchpad mouse on the wireless keyboard. (Simply move your index finger gently across the touchpad.)

- Wireless mouse, attached by Velcro to the top of the projector. (The wireless mouse works like the touchpad. The antenna tail should be facing you, and not turned away from your body.)

- The Crestron Touchpad can also be used as a mouse, but it is not precise. The Crestron is best for making minor adjustments from far away. (Simply tap the arrows on the screen.)

SOUND SYSTEM:

12. Direct the speakers toward the audience for best sound quality. The volume of the speakers should only be adjusted from the Crestron. The master volume, bass and treble controls should be set at approximately ¾ level, 3 o'clock position, and should not be changed.

    The speakers should stay on a horizontal plane for best use. Do not tip the speakers upward or rotate them against the wires as this may cause the wire to fall out or start to break and you could lose sound quality.
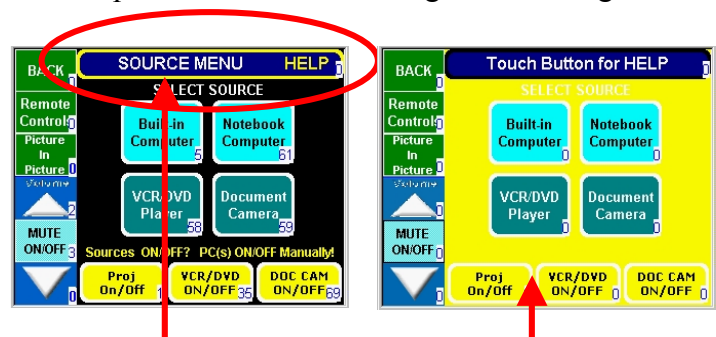
CRESTRON TOUCHPAD:

13. The Crestron Touchpad, which eliminates the use of the various remote controls, is attached to the Nomad on the right top near the projector. You can easily change the input sources and control the integrated devices including the document camera, VCR/DVD player, and the projector. The Crestron is wireless and will allow operational control up to 500 feet away.

    The Welcome screen will take you to the source menu, where you can control Nomad features. Each screen has a Help button circled in yellow. When you are within a Help screen, the background is yellow. Use the Back key to return to the screen preceding the Help screen.

    The Crestron battery will charge only if the Nomad is plugged in and the Crestron is in its docking station. Be sure that the red charging light is on. To extend the life of the battery, keep the Crestron controls at the lowest possible contrast and brightness settings.

CRESTRON WELCOME SCREEN

SOURCE MENU HELP BUTTON

SOURCE MENU HELP SCREEN

RADIO FREQUENCY RECEIVER:

The Radio Frequency receiver is attached by Velcro to the side of the buit-in computer. The channel indicator is on the underside of the receiver. Frequency 1 is recommended by the Nomad manufacturer, and Frequency 4 is the preferred alternative.

If you remove the batteries from the keyboard, the radio frequency defaults to Frequency 1, although the switch may indicate a different frequency. The keyboard will not work if the frequency for the keyboard and the Radio Frequency receiver are set to different frequencies.

You can reach change the keyboard frequency by pressing the FN button on the keyboard and holding it down while pressing the NUM LOCK button. Unfortunately, there is no indicator on the keyboard to tell you which frequency you are on. For that reason, you must try a key on the keyboard or try the touchpad. If there is no response, you are not on the correct frequency and must continue to press FN and NUM LOCK until you locate the frequency.

SHUT DOWN PROCEDURES

The Nomad must be completely shut down prior to disconnecting the power cord.

 The Nomad projector uses a very expensive light bulb. It is imperative that you do not shut off power to the projector prematurely, as this will damage the equipment. Wait for the yellow Power light to cease flashing, and wait for the fan to turn off.

- Turn off the VCR / DVD via the remote or via the power switch.
- Turn off the built-in computer.
- Disconnect your laptop and return the S-Video-In cable to the hatch.
- Turn off the Document Camera.
- Replace the keyboard and mice to their storage areas.
- Lower the retractable handle by pressing the buttons on the inside at the base of each handle.
- Return the Crestron Touchpad to its docking station and strap in using the Velcro straps.
- Please follow the instructions below for returning the flat panel monitor to its storage position.

MONITOR POSITIONING AND STOWING:

The flat panel monitor is designed to be stored face down on top of the Nomad behind the projector. It can be moved and placed in many positions for optimum viewing by the presenter and to minimize obstruction of the audience. The flexible arm on which the monitor is mounted consists of many pivot points and joints. Stowing the display can be challenging unless you follow the A-B-Cs for storage.

STEP A: Straighten the last knuckle as seen in STEP A. Firmly move the monitor until the knuckle straightens and the arrows are directly pointing at each other as shown.

STEP B: As you are otherwise lifting and moving the monitor keep the monitor perpendicular to the ground until the last possible second. See picture below for the wrong and right ways to stow monitor.

STEP C: Rotate the arm towards the cable bundle, not against it, until it reaches the "end of its rope".

STEP A:

STRAIGHTEN KNUCKLE

FINAL STORAGE POSITION

| STEP 1 | STEP 2 | STEP 3 | STEP 4 |

CORRECT METHOD